



THE UNIVERSITY OF
AUCKLAND
Te Whare Wānanga o Tāmaki Makāurau
NEW ZEALAND

ENGINEER YOUR CAREER

WINTER 2021



Sabayasachi
Implementation Technician

COME AND
JOIN THE TEAM



ecoPortal

Beautiful H&S and Risk Management Software

LET US INTRODUCE OURSELVES

ecoPortal began as a university venture by university students - and we're very proud and excited to continue developing our relationship with the University of Auckland year-to-year. Throughout the year, we provide opportunities for students and recent graduates to get fully stuck in with the ecoPortal family and gain tangible, pragmatic experience in the software industry, through our graduate jobs and our Summer Experience Internship programme.

ecoPortal is an enterprise risk management platform that enables medium to large companies manage their safety, environmental, sustainability and quality risks. Our software allows businesses to take more control and increase the likelihood of keeping their employees safe, of making their businesses more sustainable and of managing the quality of their products and services from one integrated platform.

We empower leaders to better manage their business risks, giving thousands of their employees the opportunity to work in a safe and secure environment through better tools, information, and education. NZ's leading companies such as PAKnSAVE, New World, BNZ, Les Mills, Briscoes, Ministry of Justice and many more trust ecoPortal to manage a variety of business risks.

We are a value and purpose-driven organisation that fundamentally believe in being a force of good in the world. We believe everyone deserves to work in a welcoming, respectful and empathetic culture. We also believe in great coffee, table-tennis, pool and comfy couches (which we have in abundance) in our character space office in the Auckland city center, one the world's most liveable cities.



Beautiful Health, Safety and Risk Management Software

"ecoPortal allowed me opportunities to grow as a software engineer faster than I expected. It's been a really rewarding process growing from that initial inter experience to my current Project Manager role."

TINA CHEN
Business Analyst



SO, WHAT NOW?

ecoPortal is always looking for collaborative, analytical, creative and customer-focused students and graduates who are passionate and eager to begin building a career in software development.

Please check out the ecoPortal LinkedIn, or visit ecoportal.com and check the career section for any graduate opportunities.

To learn more about us, visit:

ecoportal.com

Life @ Holmes

Hannah Mansergh, Graduate Engineer at Holmes Consulting.

HOW LONG HAVE YOU BEEN AT HOLMES CONSULTING?

I've been at Holmes for just over two years now!

WHAT'S THE BEST THING ABOUT WORKING FOR HOLMES CONSULTING?

The people, technical expertise, and the exciting projects we get involved in. It's amazing to see how many large projects Holmes is a part of.

HOW HAS HOLMES SUPPORTED YOU AS A GRADUATE?

I've received fantastic technical support from the senior team and Holmes University, our internal technical graduate programme.

IS THERE ANYTHING THAT'S SURPRISED YOU ABOUT STARTING WORK?

As a graduate at Holmes, I haven't been stuck with the small, simple jobs - there's so much variety. I've been involved in large designs that I thought only senior engineers would work on, and have had the opportunity to take the lead within smaller projects.

AND WHAT'S BEEN CHALLENGING?

Realising that there is still so much to learn. University provides you with the foundations but there really is such a steep learning curve. Also, how important soft skills are. Communicateing with external members of the design team (architects, project managers, etc) is skill I've been developing.

TELL US ABOUT YOUR MOST EXCITING PROJECT.

Hills Village Development in Hamilton East. It's the largest and most diverse project I've worked on - there's a basement car park, a commercial building and two blocks of residential townhouses! It's been equally challenging and rewarding, especially now it's in construction.

“I'VE BEEN INVOLVED IN LARGE PROJECTS THAT I THOUGHT ONLY SENIOR ENGINEERS WOULD WORK ON, AND HAVE HAD THE OPPORTUNITY TO TAKE THE LEAD WITHIN SMALLER PROJECTS”.

WHY DID YOU CHOOSE TO BE BASED IN THE HAMILTON OFFICE?

I get the same opportunities as the larger offices, and the benefits of living in a smaller city while working in a smaller team. There's around 20 of us in Hamilton, so I got to know everyone quickly. We're always doing something social together outside of work.



WHAT DO YOU ENJOY MOST ABOUT LIVING IN HAMILTON CITY?

It's an easy city to live in, and very central. A 2-hour drive in most directions can get you to so many different places - beaches, lakes, mountains, snow... every weekend you can be exploring somewhere new.

ANY ADVICE FOR NEW GRADUATES?

Keep asking questions and get to site as much as possible. I learn a lot by seeing how the designs are being built and can use that knowledge to help improve my future designs.

IN THREE WORDS, HOW WOULD YOU DESCRIBE HOLMES CONSULTING?

Collaborative, inspiring and fun.

We're still on the lookout for graduates to join the Holmes team. Visit our website for more information:
holmesconsulting.co.nz

 @holmesconsulting

 Holmes Consulting (NZ)

Holmes

WHERE DO YOU SEE YOUR FUTURE GOING?

SIMONE STOOVÉ

BE (Hons) Civil and Environmental Engineering | University of Auckland

Since starting my career at PDP, I have grown to love environmental engineering. Engineering is where science meets the real world, and environmental engineering is where systems are designed and implemented to treat or reduce waste.

Last year, I assisted with re-consenting a wastewater irrigation system by assessing environmental effects and developing mitigation strategies for these effects. Recently, my work focus has turned to a detailed civil and hydraulic design of a multi million-dollar wastewater treatment plant upgrade.

Perhaps one of the greatest learnings for me has been realising that the collective experience and skill-set of a design team leads to a well-designed system.

Transitioning into the working world can be intimidating, but the multiplicity of staff at all career stages means there is always someone around who can offer support, technical advice, or a joke or two!

With support from the PDP mentoring programme, I have been able to

identify opportunities or methods to up-skill my soft skills and deepen my technical knowledge. Our mid-morning coffee-runs, regular domain lunchtime runs, 3 pm office planking sessions, and super-social touch rugby have also made the transition enjoyable.

There are exciting changes in regulation ahead, particularly around freshwater and environmental standards, that will trigger many work opportunities in the field of water and environmental engineering. Water infrastructure around the country is becoming dated and in need of remediation. In terms of work opportunities at PDP, in part, this will look like designing upgrades to water and wastewater infrastructure and urban stormwater systems.

Within environmental engineering itself, there is a great diversity of projects. The type of work you engage in shapes your career, whether you are a global picture optioneering type, or a precise and practical "let's figure out how this thing will actually work" detailed design type, there is a niche to suit a range of engineering personalities.



WHO ARE WE

PDP is a leading environmental and engineering consultancy offering solutions for environmental issues through our specialised range of services.

We are a NZ, employee owned and operated company, with 35 years' experience in providing environmental solutions throughout New Zealand, Australia and in the Pacific Islands.

Our team of over 180 specialists are located in Auckland, Hamilton, Tauranga, Wellington, Christchurch and Invercargill.

We are currently recruiting water infrastructure engineering graduates for our office in Auckland.

Shape your **career** with us

WHO ARE WE?

We're a 100% owned and operated multi-disciplinary engineering consultancy providing specialist geotechnical, civil, water and environmental services for a range of clients in hydro and wind power, irrigation, water supply, flood management, land and resource development and forensics.

We've been around for 35 years and our team of 90 staff are passionate about creating positive outcomes that enhance people's lives and respect the environment. We pride ourselves on the quality of the work we do and our ability to solve technically challenging problems.

We don't stand on ceremony, things are pretty relaxed here at Riley; we support flexible working and like to have fun and be social.



THIS IS GARETH.

He's a water resources engineering graduate and has been with us since 2019. We asked him about life at Riley.

If you will be looking for a graduate or scholarship opportunity in 2022 and would like to talk with Gareth or one of our other graduate engineers about working at Riley, drop us a line via our website and we'll be happy to connect you.

What is your role at Riley?

I am a water resources engineer which involves a large variety of work associated with water and related infrastructure (mainly stormwater and fresh water). Some examples of the work I have been involved in includes dam safety work, such as deformation survey assessments, monitoring and surveillance, and potential impact classification assessments. I also undertake hydraulic and hydrological modelling for dam breach and flood assessments. My work often involves using a variety of software (e.g. GIS and CAD) and writing reports.

Why did you choose Riley?

I always wanted to work in the water resources engineering field and the work that Riley was involved with appeared to contribute to society in a positive way and be meaningful. This was confirmed once I started working here and learnt more. One of the most unique opportunities that comes with working at Riley is direct involvement with the clients from an early stage in your career.

Advice for those considering engineering?

Think about the type of work you will find meaningful and enjoyable and look for companies that will be able to provide these

WORKING AT RILEY

Each year we take on new graduates and award scholarships to several students along with the offer of a summer internship.

Whether you are working as a graduate or an intern we are passionate about helping you to grow and develop as an engineering professional. One of the key ways we do this is by providing you with a variety of on-the-job experiences and the opportunity to work with a diverse range of people – other engineers within Riley, contractors and clients.

opportunities. Try and talk to people who have experience doing similar work to that which interests you to find out what it's like. Start thinking about how you would like your career to develop in your future early on.

Top three things about working at Riley?

- The positive company culture and other staff members.
- Support to develop a comprehensive engineering skillset as a graduate through mentoring provided by senior staff.
- The flexibility. I have been supported by Riley to be able to pursue wheelchair rugby at international level and will be attending the Paralympic Games in Tokyo in 2021. Riley has been very accommodating to my commitments outside of work.



Development



Coaching



Collaboration



Diversity



Support

RILEY
CONSULTANTS

RILEY.CO.NZ

Engineer your future!

*Getting out in the field
took concepts I learned in
the classroom, put them
into practice and helped
me develop a problem-
solving mindset.*

GO2022

Te Ara Pāetahi | Graduate pathway

Keen to join the team?

Applications are now open for our 2021-2022 Summer Internship programme!
We'll be recruiting for our Graduate programme in early 2022.
Head to our website to find out more: www.tonkintaylor.co.nz/careers.

Meet Vensel!

He joined T+T after completing his 2nd year of a Bachelor of Civil and Environmental Engineering (Hons) degree at the University of Auckland.

Vensel initially came across T+T after reading through the EYC magazine issue that year! Born and raised in Samoa, Climate Change had greatly affected the quality of life within his community and reading about T+T's numerous sustainability projects and the positive impact they've had in the Pacific resonated deeply with a desire to make a change and encouraged him to apply.

I was supported by a fantastic team and manager, who showed their warmth and backed me from the get-go. Vensel Margraff



T+T is an award-winning, 100% New Zealand-owned specialist environmental and engineering consultancy.

We shape the interface between people and the environment - earth, water and air - using science and engineering.

Meet Alyssa!

Before working at T+T, Alyssa was keen to be a structural engineer, however after her summer internship, her eyes were opened to so many other disciplines she could get involved in with her degree, such as working in water engineering and civil infrastructure.

Alyssa is enjoying her time at T+T so far because not only did she learn a lot of technical skills, but she also learned how a consultancy works in general "so my summer at T+T was really valuable in this aspect".

Apply for anything that interests you and talk to as many people as you can - get insight on what they actually do in their day-to-day job. Alyssa Lewitt



Begin your career with RBG!

Robert Bird Group (RBG) is a global consulting engineering firm with over 600+ staff and eleven offices in New Zealand, Australia, UK, UAE, and South-East Asia.

A member of Surbana Jurong Group, we are committed to delivering each client's vision through the relentless pursuit of engineering excellence across all projects. We strive for good to a great design by transforming inspiring concepts into buildable designs through innovative, collaborative, and proactive solutions.

RBG offers a collaborative and engaging environment, as our people are core to our business, and we believe diverse and effective teams of individuals is key to our success.

Each year, RBG offers Graduate employment, internships, and work experience. You will be encouraged to embrace diversity, work collaboratively, and contribute to change in your role. In addition, you'll be surrounded by global experts that will support your development and growth.

Our Wellington office is seeking an enthusiastic intern looking to expand their skill set and knowledge on several different projects.

For more information
and how to Apply
scan the QR code or visit
robertbird.com/careers



RBG recognises that
Graduate Engineers
are the future
of our company, and
we are excited to
offer the opportunity
to provide a positive
learning environment
that is challenging
and rewarding.



A word from our 2020/2021 summer intern Zoe Millar



As an intern this summer at RBG, I was offered the chance to be part of a talented team of engineers committed to producing the best solutions for engineering problems. I built on the theoretical skills and knowledge I have gained at University and applied it to practical problems through a wide range of projects.

Having the opportunity to work on a range of projects, both big and small, developed my understanding of engineering both on the technical and commercial sides. As a specialist engineering consultancy, RBG works on some unique projects that are the first of their kind in New Zealand.

One of these projects is the Wakefield Street Hotel development in Auckland, the tallest modular hotel designed and constructed in New Zealand. It is composed of braced shipping containers built in China, fully outfitted, and shipped to New Zealand to be stacked and connected. I worked on the seismic resiliency of this system. I was able to apply what I had learnt at University while gaining a much broader understanding of the complexities of multi-storey structures in New Zealand's seismic landscape.

One of my summer internship highlights was working in an environment where learning and developing your skills is highly encouraged both inside and outside the office. For example, I attended a session about the impact of the net-zero carbon neutral on the engineering sector and how engineers can change our design methods to serve the planet and our communities better.

Being part of an international company gave me the opportunity to work on many overseas projects and be part of a strong and inclusive culture. For example, while working at RBG, I was involved in a Civil Engineering project based in Dubai. Our Civil team completed a section of the work in New Zealand while working in conjunction with the RBG Middle East and North Africa office.

Working at RBG was extremely rewarding, and I am grateful for the opportunity and experience.

INFRASTRUCTURE

Investing in sustainable infrastructure solutions for roads, rail, bridges, tunnels and special structures.

ACCIONA is a global group with expertise in delivering projects with a distinctive hallmark for innovation, environmental sustainability, and social purpose. Our goal is to lead the transition towards a low-carbon economy, bringing technical excellence and innovation to all our projects to design a better planet.



NEW ZEALAND PRESENCE



Ara Tūhono – Pūhoi to Warkworth Motorway

Ara Tūhono – Pūhoi to Warkworth is a major infrastructure project to extend the four-lane Northern Motorway (SH1) 18.5km from the Johnstones Hill Tunnels to just north of Warkworth. Construction on the project began in 2016 and will be completed in 2022. The \$877.5 million project contains a diverse range of activities, such as significant earthmoving (with almost 10 million cubic metres moved to date), the construction of sizeable structures like viaducts, underpasses and culverts, and large-scale vegetation removal as well as planting. There are also several points of interaction with an active major road (State Highway 1). The Pūhoi – Warkworth project will enable economic growth in the Northland region and provide a safer, more reliable transport link between Northland and the upper North Island freight triangle of Auckland, Waikato, and Tauranga.



AMETI Eastern Busway

The Eastern Busway will significantly improve transport choices, reliability, and journey times in southeast Auckland and to other parts of the region. The project is due to commence in 2022 and includes the design and construction of dedicated new busway, cycleway, and footpaths, including new stations at Pakuranga and Botany, urban design improvements, and safety and signal improvements at key intersections. It also includes a new grade separated road connecting Pakuranga Road with Pakuranga Highway that will provide better travel options and reduce congestion for general traffic.



GRADUATE PROGRAM

ACCIONA's new Global Graduate Program, in collaboration with Spain's ESIC Business and Marketing School, undertakes a nine-month online study program covering Business Strategy, Project Management, Marketing and Sales, Finance, Digital Business, Skills: Leadership, Communication and Influence, Teamwork, Sustainability and World Economics.



One of the participants is Graduate Site Engineer (Structures) Anju Kurian, who joined the project in October 2019, and has been selected for ACCIONA's Global Graduate Program after being nominated as one of the company's top performing graduates. Anju was born in India and raised in Dubai, where she completed a Bachelor of Engineering. She decided to study her Masters in New Zealand and it wasn't long after graduating that she was hired to work on the project. "I'm having so much fun and I just love this job. It's so challenging and it keeps me on my toes all the time. Getting to work with a highly supportive and encouraging team is the best part" says Anju. Anju's job focuses mostly on the Arawhiti ki Ōkahu and Arawhiti ki Pūhoi viaducts.

"The program has been challenging with work, but it has taught me a lot about the management part of being a professional. The diverse program allowed us to work with engineers all around the world from various disciplines and provides a platform to be a future business leader. Intensive classes in economics, marketing, finance, and sales have been highly beneficial towards strengthening my management skills. I look forward to being a part of a company that is determined to provide opportunities to young engineers to develop our skills and provide a sustainable future."

Meet the Student Development & Engagement Team



Steve Roberts | Student Support Adviser (Maori and Pacific) | s.roberts@auckland.ac.nz

Steve supports all students with their wellbeing, pastoral care and learning support. He is the primary Student Support Adviser for Maori and Pacific students.

Courtney King | Student Experience Adviser | courtney.king@auckland.ac.nz

Courtney provides a range of development, transition and engagement activities for all students. She works closely with Campus Life and the faculty's student clubs.

Jonathan Culley | Employer Liaison Manager | j.culley@auckland.ac.nz

Jonathan facilitates employer networking and fosters industry relationships, along with graduate and intern recruitment. He also provides advice and support to students on career options.

Caitlin Scragg | Student Experience Adviser | c.scragg@auckland.ac.nz

Caitlin supports all engineering students with their wellbeing, pastoral care and learning support. She also coordinates our Part II Academic Assistance Centres.

Ashleigh Fox | Project Manager, WIE33 Project | a.fox@auckland.ac.nz

Ashleigh manages our WIE33 project, designed to increase the representation of undergraduate engineering students.

Alcione Fagundes | Student Development and Engagement Team Leader | a.fagundes@auckland.ac.nz

Alcione works closely with the Student Experience Advisers and Student Support Advisers to support undergraduate and postgraduate students, and provide development opportunities for all students.

Meleane Akauola | Student Support Adviser | m.akuola@auckland.ac.nz

Meleane supports all engineering students with their wellbeing, pastoral care and learning support. She is also the primary Student Support Adviser for international students.

Kelly Moodie | Women in Engineering Adviser | k.moodie@auckland.ac.nz

Kelly supports WEN, as well as provides advice and support strategies for Women in Engineering.

Chris McClymont | Student Development and Engagement Manager | c.mcclymont@auckland.ac.nz

Chris manages development, engagement, support and retention initiatives to enhance students' experience.



ARUP

"DIVERSE IN ETHNICITY, GENDER,
AGE, AND THOUGHT. IT IS
ULTIMATELY THE **DIVERSITY**
→ AND THE POTENTIAL FOR
SELF-GROWTH THAT LED
TO ME CHOOSING ARUP."

WES MAUAFU
.....
Graduate Engineer

When Arup people say we want to shape a better world, we really mean it. Sustainability is at the heart of our way of working, and our projects across New Zealand including: water, transport, energy, and healthy and safe precincts and places.

Our team is part of a generous, collaborative network of passionate specialists: we learn from each other as we tackle projects together. And as a global firm, it doesn't matter where you're based, you could be contributing to a project in one of 140+ countries.



Mayurie Gunatilaka
Group Leader, New Zealand

If meaningful work is important to you, Arup offers unlimited opportunities. Think about joining us in Auckland.

**APPLY
Now!**

Our Summer Vacation Programme closes on 11 August.

Find out more at <https://www.arup.com/careers/early-careers/internships/australasia-internships>